PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference ACM 3029 P1-WO	FOR FURTHER A	CTION	See Form PCT/IPEA/416	
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)	
PCT/EP2004/014737 21.12.2004			22.12.2003	
International Patent Classification (IPC) or INV. D21H17/26 D21H19/24 D21H			6	
Applicant AKZO NOBEL N.V. et al.				
This report is the international pro- Authority under Article 35 and tra	•	•	this International Preliminary Examining 36.	
2. This REPORT consists of a total of 5 sheets, including this cover sheet.				
3. This report is also accompanied by ANNEXES, comprising:				
a. \square sent to the applicant and to the International Bureau) a total of sheets, as follows:				
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).				
	·-	■	onsiders contain an amendment that goes ndicated in item 4 of Box No. I and the	
·	bles related thereto, in a	electronic form only, a	nber of electronic carrier(s)) , containing a as indicated in the Supplemental Box estructions).	
4. This report contains indications re	elating to the following i	tems:		
☑ Box No. I Basis of the report				
☐ Box No. II Priority				
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
☐ Box No. IV Lack of unity of	invention			
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain docume	ents cited			
Box No. VII Certain defects in the international application				
☐ Box No. VIII Certain observations on the international application				
Date of submission of the demand		Date of completion of	f this report	
21.10.2005		28.04.2006		
Name and mailing address of the internation preliminary examining authority:	nal	Authorized officer	Legalization Palentes.	
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13/534005

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/01473706

	Box No.	l Basis of the report			
1.	1. With regard to the language, this report is based on				
	⊠ the i	nternational application in the language in which it was filed			
		nslation of the international application into , which is the language translation furnished for the purposes of:			
	□р	ternational search (under Rules 12.3(a) and 23.1(b)) ublication of the international application (under Rule 12.4(a)) ternational preliminary examination (under Rules 55.2(a) and/or 55.3(a))			
2.	. With regard to the elements* of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):				
	Description, Pages				
	1-11	as originally filed			
	Claims, Numbers				
	1-5	as originally filed			
	□ a sec	quence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing			
3.	.	amendments have resulted in the cancellation of:			
		e description, pages e claims, Nos.			
		e drawings, sheets/figs e sequence listing <i>(specify)</i> :			
		ny table(s) related to sequence listing (specify):			
4.	had not b	report has been established as if (some of) the amendments annexed to this report and listed below een made, since they have been considered to go beyond the disclosure as filed, as indicated in the ental Box (Rule 70.2(c)).			
	_	e description, pages e claims, Nos.			
	☐ th	e drawings, sheets/figs			
		e sequence listing <i>(specify)</i> : ny table(s) related to sequence listing <i>(specify)</i> :			
	* If i	tem 4 applies, some or all of these sheets may be marked "superseded."			

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

L

Novelty (N)

Yes: Claims

1-5

No: Claims

NONE

Inventive step (IS)

Yes: Claims

NONE

No: Claims

1-5

Industrial applicability (IA)

Yes: Claims

1-5

No: Claims

NONE

2. Citations and explanations (Rule 70.7):

see separate sheet

International application No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

ADON DUCK PROTER ROTE PROPATON 187

Re Item V.

0. The following documents are referred to in this communication:

D1: EP-A-0 310 787 D2: GB-A-2 219 587 D3: GB-A-1 474 551

1. INDEPENDENT CLAIMS 1 AND 5

1.1 Document D1 (see page 2, line 1,2, lines 20-24; abstract) discloses a paper comprising cellulose ether wherein the cellulose ether comprises a quaternary ammonium group (NB: The ether is inherently present in the product when it has been added in the manufacturing process of the product).

The subject-matter of claim 1 differs in that it comprises a filler.

It is however a common measure by the skilled person to add filler in the production of paper. See e.g. D3 ("kaolin", example 10), the disclosure of which addresses the same problem as the present application, namely retention. The subject-matter of claim 1 therefore lacks an inventive step.

The same reasoning is valid in view of D2 (see claims 1 and 15) and D3 (see page 1, lines 8-35). The subject-matter of claim 1 therefore lacks an inventive step also in view of these disclosures; Art. 33(3) PCT.

With regard to the provision of claim 1, of not including a cellulose ether which is a hydroxy ethyl cellulose, it provides a disclaimer over document D3, however, any particular effects related therewith are not discernible from the examples of the present application and it therefore can not contribute to any inventive step.

1.2 Additionally, as to claim 5 the subject-matter of this claim is considered to lack an inventive step in view of the fact that additives useful as binders, aggregating

agents, thickeners etc. which are added for obtaining size, retention etc. can, as is generally known in the field, either be added to the stock or to the formed paper in the form of a coating. The skilled person thus arrives also at claim 5 subject-matter without having to apply any inventive skills; Art. 33(3) PCT.

2. DEPENDENT CLAIMS 2-4

The subject-matter of dependent claims 2-4: in view of the cited art and the general knowledge in the field the additional features are not considered novel (implicit disclosure) alternatively not inventive (no particular effects can be seen-DS would result from a pure routine optimization); Art. 33(3) PCT.

For the assessment of the present claims on the question whether they are industrially applicable, no particular reasoning would appear necessary to give. The industrial application would appear to be evident (Art. 33(4) PCT).